# 980 GC

Wheel Loader

# Technical Specifications

**Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.**

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# 980 GC Wheel Loader Specifications

## Engine

| | | |
|---|---|---|
| Engine Model | Cat® C13A | |
| Engine Power @ 1,700 rpm ISO 14396 | 313 kW | 420 hp |
| ISO 14396 (DIN) | 426 mhp (PS) | |
| Gross Power @ 1,700 rpm SAE J1995 | 317 kW | 425 hp |
| Net Power @ 1,700 rpm ISO 9249, SAE J1349 | 293 kW | 393 hp |
| ISO 9249 (DIN) | 398 mhp (PS) | |
| Engine Torque (1,200 rpm) ISO 14396 | 2185 N·m | 1,612 lbf-ft |
| Gross Torque (1,200 rpm) SAE J1995 | 2206 N·m | 1,627 lbf-ft |
| Net Torque (1,100 rpm) ISO 9249, SAE J1349, EEC 80/1269 | 2086 N·m | 1,539 lbf-ft |
| Bore | 130 mm | 5.12 in |
| Stroke | 157 mm | 6.18 in |
| Displacement | 12.5 L | 763 $in^3$ |

- Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, China Nonroad Stage IV and Japan 2014 emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
  - 20% biodiesel FAME (fatty acid methyl ester)***
  - 100% renewable diesel, HVO (hydrotreated vegetable oil and GTL (gas-to- liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

## Weights

| | | |
|---|---|---|
| Operating Weight | 29 760 kg | 65,610 lb |

- Weight based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

## Operating Specifications

| | | |
|---|---|---|
| Static Tipping Load Full 40° Turn | | |
| With Tire Deflection | 19 251 kg | 42,441 lb |
| Without Tire Deflection | 20 452 kg | 45,089 lb |
| Breakout Force | 212 kN | 47,660 lbf |

- For a machine configuration as defined under "Weight."
- Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.

## Bucket Capacities

| | | |
|---|---|---|
| Bucket Range | 4.3-5.8 $m^3$ | 5.75-7.5 $yd^3$ |

## Transmission

| | | |
|---|---|---|
| Forward 1 | 6.6 km/h | 4.1 mph |
| Forward 2 | 12.7 km/h | 7.9 mph |
| Forward 3 | 22.5 km/h | 14.0 mph |
| Forward 4 | 39.8 km/h | 24.7 mph |
| Reverse 1 | 7.6 km/h | 4.7 mph |
| Reverse 2 | 14.5 km/h | 9.0 mph |
| Reverse 3 | 25.7 km/h | 16.0 mph |
| Reverse 4 | 39.8 km/h | 24.7 mph |

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 913 mm (36 in) roll radius.

## Service Refill Capacities

| | | |
|---|---|---|
| Fuel Tank Size | 426 L | 112.5 gal |
| Diesel Exhaust Fluid (DEF) Tank Size | 21 L | 5.6 gal |
| Cooling System | 52 L | 13.7 gal |
| Crankcase | 37 L | 9.8 gal |
| Transmission | 77 L | 20.3 gal |
| Differentials and Final Drives – Front | 84 L | 22.2 gal |
| Differentials and Final Drives – Rear | 84 L | 22.2 gal |
| Hydraulic Tank | 153 L | 40.4 gal |

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction for identification of the gas.

*If equipped with R134a (Global Warming Potential = 1430), the system contains 1.476 kg of refrigerant which has a $CO_2$ equivalent 2.145 metric tonnes (2.365 tons).

*If equipped with R1234yf (Global Warming Potential = .501) the system contains 1.476 kg of refrigerant which has a $CO_2$ equivalent of .001 metric tonnes.

## Hydraulic System

| | | |
|---|---|---|
| Implement System Pump Type | Variable displacement piston, load sensing | |
| Implement System | | |
| Maximum Flow @ 2,250 rpm | 415 L/min | 110 gal/min |
| Maximum Operating Pressure | 28 200 kPa | 4,090 psi |
| Maximum Flow 3rd Function | 250 L/min | 66 psi |
| Maximum Operating Pressure 3rd Function | 28 680 kPa | 3,000 psi |
| Hydraulic Cycle Time | | |
| Raise from Carry Position | 5.3 seconds | |
| Dump at Maximum Raise | 1.7 seconds | |
| Lower, Empty, Float Down | 3.1 seconds | |
| Total Cycle Time | 10.1 seconds | |

## Tires*

Choices include:
- Triangle 29.5R25★★ L3 (TB598)
- Triangle 29.5-25 28PR L3 (TL612)
- Triangle 29.5R25★★ L4 (TB598S)
- Triangle 26.5R25★★ L5 (TB598S+)
- Maxam 29.5R25★★ L3 (MS302)
- Maxam 29.5R25★★ L4 (MS405 DUMPXTRA)
- Maxam 29.5R25★★ L5 (MS503)
- Bridgestone 29.5R25★ L3 (VJT)
- Bridgestone 29.5-25 28PR L3 (VL2)
- Bridgestone 29.5R25 ★/★★ L4 (VSNT)
- Bridgestone 29.5-25★ L5 (VSDT)

*Tire offerings vary by region. Consult your local Cat dealer for further details.

## Sound

| | |
|---|---|
| Operator Sound Pressure Level (ISO 6396:2008) | 74 dB(A) |
| Exterior Sound Power Level (ISO 6395:2008) | 112 dB(A) |
| Operator Sound Pressure Level (ISO 6396:2008) | 74 dB(A)* |
| Exterior Sound Power Level (ISO 6395:2008) | 109 dB(A)** |

*Including countries that adopt the EU and UK directives.
**EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

## Cab

| | |
|---|---|
| Rollover protective structure (ROPS)/ Falling object protective structure (FOPS) | ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards |

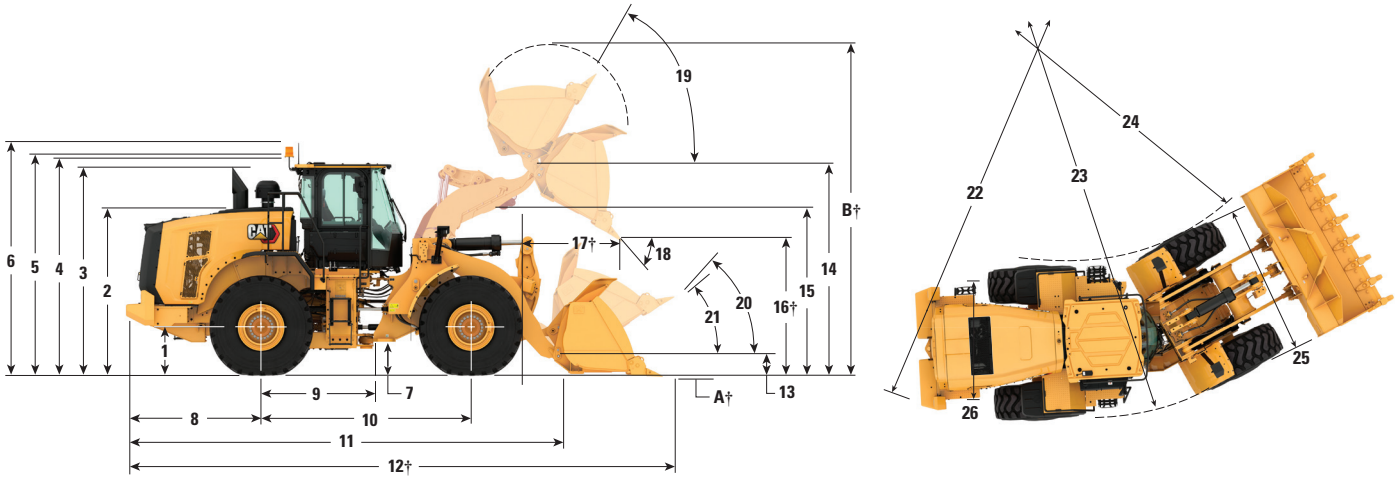
## Brakes

| | |
|---|---|
| Brakes | Brakes meet ISO 3450:2011 standards |

# 980 GC Wheel Loader Specifications

## Dimensions

All dimensions are approximate and based on Maxam MS405S L4 radial tires.




| | | | |
|---|---|---|---|
| **1** | Height to Axle Centerline | 862 mm | 2'8" |
| **2** | Height to Top of Hood | 3042 mm | 9'10" |
| **3** | Height to Top of Exhaust Pipe | 3742 mm | 12'3" |
| **4** | Height to Top of ROPS | 3807 mm | 12'5" |
| **5** | Height to Top of Product Link Antenna | 3813 mm | 12'5" |
| **6** | Height to Top of Warning Beacon | 4086 mm | 13'4" |
| **7** | Ground Clearance | 434 mm | 1'4" |
| **8** | Center Line of Rear Axle to Edge of Counterweight | 2606 mm | 8'5" |
| **9** | Center Line of Rear Axle to Hitch | 1900 mm | 6'2" |
| **10** | Wheelbase | 3800 mm | 12'5" |
| **11** | Overall Length (without Bucket) | 8093 mm | 26'6" |
| **12** | Shipping Length (with Bucket level on ground)*† | 9685 mm | 31'8" |
| **13** | Hinge Pin Height at Carry Height | 642 mm | 2'1" |
| **14** | Hinge Pin Height at Maximum Lift | 4532 mm | 14'9" |
| **15** | Lift Arm Clearance at Maximum Lift | 3843 mm | 12'6" |
| **16** | Dump Clearance at Maximum Lift and 45° Discharge*† | 3199 mm | 10'5" |
| **17** | Reach at Maximum Lift and 45° Discharge*† | 1494 mm | 4'9" |
| **18** | Dump Angle at Maximum Lift & Dump (on stops)* | 52° | |
| **19** | Rack Back at Maximum Lift* | 61° | |
| **20** | Rack Back at Carry Height* | 49° | |
| **21** | Rack Back at Ground* | 41° | |
| **22** | Clearance Circle (dia) to Counterweight | 13 459 mm | 44'2" |
| **23** | Clearance Circle (dia) to Outside of Tires | 13 503 mm | 44'3" |
| **24** | Clearance Circle (dia) to Inside of Tires | 7377 mm | 24'2" |
| **25** | Width Over Tires (unloaded) | 2819 mm | 9'2" |
| | Width Over Tires (loaded) | 2837 mm | 9'3" |
| **26** | Tread Width | 2230 mm | 7'3" |

*With 5.5 m³ (7.25 yd³) general purpose pin-on bucket with BOCE (see Operating Specifications for other Buckets).

†Dimensions are listed in Operating Specifications charts.

All height and tire related dimensions are with Maxam MS405S L4 radial tires (see Tire Option Chart for other tires). "Width Over Tires" dimensions are over the bulge and include growth.

## Tire Options

| Tire Brand | Triangle | Triangle | Triangle | Triangle | Maxam |
|---|---|---|---|---|---|
| **Tire Size** | **29.5R25** | **29.5-25** | **29.5R25** | **29.5R25** | **29.5R25** |
| **Tread Type** | **L–3** | **L–3** | **L–4** | **L–5** | **L–3** |
| **Tread Pattern** | **TB598** | **TL612** | **TB598S** | **TB538S+** | **MS302** |
| Width over Tires – Maximum (empty)* | 3037 mm<br>9'10" | 2807 mm<br>9'2" | 2817 mm<br>9'2" | 3045 mm<br>9'10" | 3054 mm<br>10'0" |
| Width over Tires – Maximum (loaded)* | 3094 mm<br>10'2" | 2836 mm<br>9'3" | 3074 mm<br>10'1" | 3053 mm<br>10'0" | 3079 mm<br>10'1" |
| Change in Vertical Dimensions (average of front and rear) | | 10 mm<br>0.40" | 11 mm<br>0.43" | 32 mm<br>1.26" | -6 mm<br>-0.24" |
| Change in Horizontal Reach | | -9.5 mm<br>-0.38" | -6 mm<br>-0.24" | -25.40 mm<br>-1.0" | -19 mm<br>-0.75" |
| Change in Clearance Circle to Outside of Tires | | -129 mm<br>-5.08" | -10 mm<br>-0.40" | -20.50 mm<br>-0.81" | -7.5 mm<br>-0.30" |
| Change in Clearance Circle to Inside of Tires | | 129 mm<br>5.08" | 10 mm<br>0.40" | 20.5 mm<br>0.81" | 8 mm<br>0.31" |
| Change in Operating Weight (without ballast) | | -313 kg<br>-690 lb | 323 kg<br>712 lb | 904 kg<br>1,993 lb | 80 kg<br>176 lb |
| Change in Static Tipping Load – Straight | | -238 kg<br>-525 lb | 245 kg<br>540 lb | 687 kg<br>1,515 lb | 61 kg<br>134 lb |
| Change in Static Tipping Load – Articulated | | -208 kg<br>-459 lb | 215 kg<br>474 lb | 601 kg<br>1,325 lb | 53 kg<br>117 lb |
| Rear Axle Oscillation Angle | ±13 degrees | ±13 degrees | ±13 degrees | ±13 degrees | ±13 degrees |

NOTE: Tire offerings may vary by region. Consult your local Cat dealer for further details.
*Width over tire bulge and includes tire growth.

| Tire Brand | Maxam | Maxam | Bridgestone | Bridgestone | Bridgestone | Bridgestone |
|---|---|---|---|---|---|---|
| **Tire Size** | **29.5R25** | **29.5R25** | **29.5R25** | **29.5-25** | **29.5R25** | **29.5R25** |
| **Tread Type** | **L–4** | **L–5** | **L–3** | **L–3** | **L-4** | **L–5** |
| **Tread Pattern** | **MS405 DUMPXTRA** | **MS503** | **VJT** | **VL2** | **VSNT** | **VSDT** |
| Width over Tires – Maximum (empty)* | 2819 mm<br>9'2" | 2819 mm<br>9'2" | 2835 mm<br>9'3" | 2782 mm<br>9'1" | 2818 mm<br>9'2" | 2818 mm<br>9'2" |
| Width over Tires – Maximum (loaded)* | 2837 mm<br>9'3" | 3086 mm<br>10'1" | 3079 mm<br>10'1" | 3028 mm<br>9'9" | 2835 mm<br>9'3" | 2835 mm<br>9'3" |
| Change in Vertical Dimensions (average of front and rear) | -24 mm<br>-0.94" | 7 mm<br>0.28" | -4 mm<br>-0.16" | 18 mm<br>0.71" | 24 mm<br>0.08" | 12 mm<br>0.47" |
| Change in Horizontal Reach | -6 mm<br>-0.24" | -27 mm<br>-1.06" | -4.5 mm<br>-0.18" | 3 mm<br>0.12" | -25 mm<br>-0.08" | -24.5 mm<br>-0.97" |
| Change in Clearance Circle to Outside of Tires | -128.5 mm<br>-5.06" | -4 mm<br>-0.16" | -7.5 mm<br>-0.30" | -33 mm<br>-1.30" | -129.5 mm<br>-0.42" | -129.5 mm<br>-5.10" |
| Change in Clearance Circle to Inside of Tires | 128.5 mm<br>5.06" | 4 mm<br>0.16" | 7.5 mm<br>0.30" | 33 mm<br>1.30" | 129.5 mm<br>0.42" | 129.5 mm<br>5.10" |
| Change in Operating Weight (without ballast) | 220 kg<br>485 lb | 1108 kg<br>2,443 lb | -76 kg<br>-168 lb | -236 kg<br>-520 lb | 532 mm<br>1'7" | 1108 kg<br>2,443 lb |
| Change in Static Tipping Load – Straight | 167 kg<br>368 lb | 842 kg<br>1,856 lb | -58 kg<br>-128 lb | -179 kg<br>-395 lb | 404 mm<br>1'3" | 842 kg<br>1,856 lb |
| Change in Static Tipping Load – Articulated | 146 kg<br>322 lb | 737 kg<br>1,625 lb | -51 kg<br>-112 lb | -157 kg<br>-346 lb | 354 mm<br>1'2" | 737 kg<br>1,625 lb |
| Rear Axle Oscillation Angle | ±13 degrees | ±13 degrees | ±13 degrees | ±13 degrees | ±13 degrees | ±13 degrees |

NOTE: Tire offerings may vary by region. Consult your local Cat dealer for further details.
*Width over tire bulge and includes tire growth.

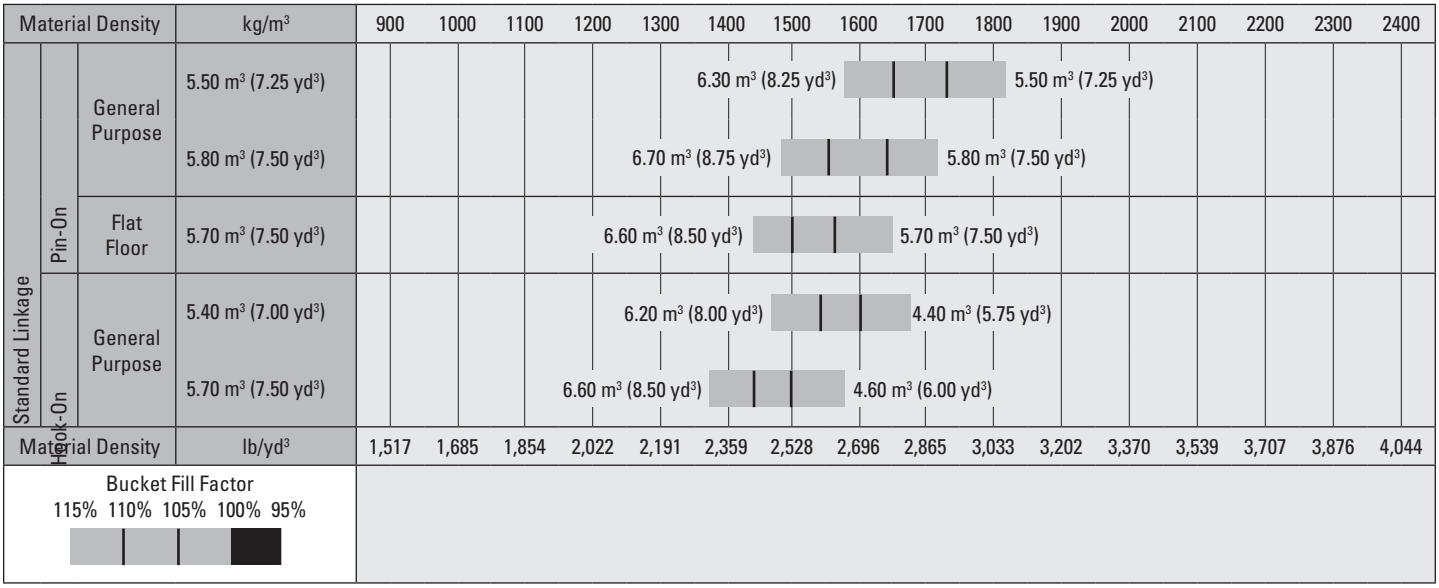
# 980 GC Wheel Loader Specifications

## Bucket Fill Factors and Selection Guide

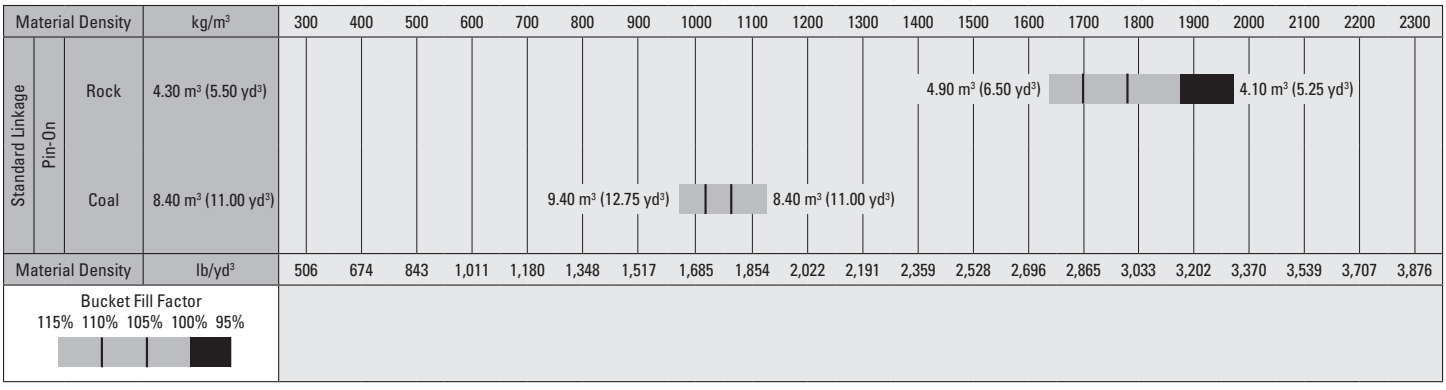
The bucket size must be chosen based on the density of the material and on the expected fill factor. The Cat Performance Series Buckets with longer floor, larger bucket opening, increased repository angle, rounded side boards and integrated spill guard demonstrate fill factors significantly higher than previous generation or non-Cat buckets. The actual volume handled by the machine is thus often larger than the rated capacity.

| Loose Material | | Fill Factor (%)* | Material Density |
|---|---|---|---|
| Earth/Clay | | 115 | 1.5-1.7 |
| Sand and Gravel | | 115 | 1.5-1.7 |
| Aggregate: | 25-76 mm (1 to 3 in) | 110 | 1.6-1.7 |
| | 19 mm (0.75 in) and smaller | 105 | 1.8 |
| Rock: | 76 mm (3 in) and larger | 100 | 1.6 |

*As a % of ISO 7546:1983 rated capacity.
**Note:** Fill Factors achieved will also depend on whether the product is washed or not washed.




**Note:** All buckets are showing Bolt-On Edges.
*Bucket availability may vary by region.




**Note:** All buckets are showing Bolt-On Edges.
*Bucket availability may vary by region.
** Data with Rock, Spade buckets equipped with Teeth and Segments and machine with L5 tires.

## Operating Specifications – Buckets

| Linkage | | Standard Linkage | | | |
|---|---|---|---|---|---|
| **Bucket Type** | | **General Purpose – Pin-On** | | | |
| **Edge Type** | | **Bolt-On Cutting Edges** | **Teeth and Segments** | **Bolt-On Cutting Edges** | **Teeth and Segments** |
| Capacity – Rated | $m^3$ | 5.50 | 5.50 | 5.80 | 5.80 |
| | $yd^3$ | 7.25 | 7.25 | 7.50 | 7.50 |
| Capacity – Rated at 110% Fill Factor | $m^3$ | 6.10 | 6.10 | 6.40 | 6.40 |
| | $yd^3$ | 8.00 | 8.00 | 8.25 | 8.25 |
| Width | mm | 3468 | 3533 | 3468 | 3533 |
| | ft/in | 11'4" | 11'7" | 11'4" | 11'7" |
| **16**† Dump Clearance at Maximum Lift and 45° Discharge | mm | 3278 | 3105 | 3241 | 3069 |
| | ft/in | 10'9" | 10'2" | 10'7" | 10'0" |
| **17**† Reach at Maximum Lift and 45° Discharge | mm | 1478 | 1636 | 1511 | 1670 |
| | ft/in | 4'10" | 5'4" | 4'11" | 5'5" |
| Reach at Level Lift Arm and Bucket Level | mm | 2961 | 3193 | 3011 | 3244 |
| | ft/in | 9'8" | 10'5" | 9'10" | 10'7" |
| **A**† Digging Depth | mm | 114 | 104 | 114 | 104 |
| | in | 4.4" | 4" | 4.4" | 4" |
| **12**† Overall Length | mm | 9615 | 9871 | 9665 | 9920 |
| | ft/in | 31'7" | 32'5" | 31'9" | 32'7" |
| **B**† Overall Height with Bucket at Maximum Lift | mm | 6430 | 6430 | 6490 | 6490 |
| | ft/in | 21'2" | 21'2" | 21'4" | 21'4" |
| Loader Clearance Circle Radius with Bucket at Carry Position | mm | 7619 | 7724 | 7632 | 7737 |
| | ft/in | 25'0" | 25'5" | 25'1" | 25'5" |
| Static Tipping Load, Straight (With tire deflection) | kg | 22 328 | 22 032 | 22 193 | 21 895 |
| | lb | 49,226 | 48,574 | 48,928 | 48,271 |
| Static Tipping Load, Straight (No tire deflection) | kg | 23 673 | 23 373 | 23 544 | 23 242 |
| | lb | 52,191 | 51,530 | 51,907 | 51,240 |
| Static Tipping Load, Articulated (With tire deflection) | kg | 19 322 | 19 025 | 19 192 | 18 894 |
| | lb | 42,598 | 41,945 | 42,312 | 41,654 |
| Static Tipping Load, Articulated (No tire deflection) | kg | 20 516 | 20 216 | 20 393 | 20 091 |
| | lb | 45,230 | 44,569 | 44,959 | 44,293 |
| Breakout Force (§) | kN | 217 | 214 | 209 | 207 |
| | lbf | 48,898 | 48,251 | 47,174 | 46,541 |
| Operating Weight* | kg | 29 425 | 29 643 | 29 501 | 29 719 |
| | lb | 64,871 | 65,351 | 65,038 | 65,519 |

*Static tipping loads and operating weights shown are based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

**Rock bucket specifications are given on Maxam 29.5R25 MS503 L5 Radial tires.

† Illustration shown with Dimension charts.

(§) Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

(With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

# 980 GC Wheel Loader Specifications

## Operating Specifications – Buckets

| Linkage | | Standard Linkage | | | |
|---|---|---|---|---|---|
| **Bucket Type** | | **General Purpose – Hook-On – Fusion™** | | | |
| **Edge Type** | | **Bolt-On Cutting Edges** | **Teeth and Segments** | **Bolt-On Cutting Edges** | **Teeth and Segments** |
| Capacity – Rated | $m^3$ | 5.40 | 5.40 | 5.70 | 5.70 |
| | $yd^3$ | 7.00 | 7.00 | 7.50 | 7.50 |
| Capacity – Rated at 110% Fill Factor | $m^3$ | 5.90 | 5.90 | 6.30 | 6.30 |
| | $yd^3$ | 7.75 | 7.75 | 8.25 | 8.25 |
| Width | mm | 3447 | 3546 | 3447 | 3447 |
| | ft/in | 11'3" | 11'7" | 11'3" | 11'3" |
| **16**† Dump Clearance at Maximum Lift and 45° Discharge | mm | 3163 | 3009 | 3096 | 2937 |
| | ft/in | 10'4" | 9'10" | 10'1" | 9'7" |
| **17**† Reach at Maximum Lift and 45° Discharge | mm | 1608 | 1751 | 1652 | 1788 |
| | ft/in | 5'3" | 5'8" | 5'5" | 5'10" |
| Reach at Level Lift Arm and Bucket Level | mm | 3134 | 3343 | 3214 | 3421 |
| | ft/in | 10'3" | 10'11" | 10'6" | 11'2" |
| **A**† Digging Depth | mm | 118 | 123 | 118 | 118 |
| | in | 4.6" | 4.8" | 4.6" | 4.6" |
| **12**† Overall Length | mm | 9792 | 10 021 | 9873 | 10 103 |
| | ft/in | 32'2" | 32'11" | 32'5" | 33'2" |
| **B**† Overall Height with Bucket at Maximum Lift | mm | 6505 | 6505 | 6573 | 6573 |
| | ft/in | 21'5" | 21'5" | 21'7" | 21'7" |
| Loader Clearance Circle Radius with Bucket at Carry Position | mm | 7697 | 7820 | 7723 | 7804 |
| | ft/in | 25'4" | 25'8" | 25'5" | 25'8" |
| Static Tipping Load, Straight (With tire deflection) | kg | 20 528 | 20 265 | 20 333 | 20 177 |
| | lb | 45,256 | 44,677 | 44,826 | 44,483 |
| Static Tipping Load, Straight (No tire deflection) | kg | 21 824 | 21 558 | 21 634 | 21 476 |
| | lb | 48,114 | 47,528 | 47,695 | 47,348 |
| Static Tipping Load, Articulated (With tire deflection) | kg | 17 614 | 17 351 | 17 433 | 17 277 |
| | lb | 38,833 | 38,254 | 38,433 | 38,089 |
| Static Tipping Load, Articulated (No tire deflection) | kg | 18 767 | 18 501 | 18 591 | 18 434 |
| | lb | 41,375 | 40,789 | 40,987 | 40,640 |
| Breakout Force (§) | kN | 190 | 192 | 181 | 179 |
| | lbf | 42,872 | 43,285 | 40,713 | 40,283 |
| Operating Weight* | kg | 30 491 | 30 686 | 30 568 | 30 683 |
| | lb | 67,221 | 67,651 | 67,391 | 67,644 |

*Static tipping loads and operating weights shown are based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

**Rock bucket specifications are given on Maxam 29.5R25 MS503 L5 Radial tires.

† Illustration shown with Dimension charts.

(§) Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

(With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

## Operating Specifications – Buckets

| Linkage | | Standard Linkage | |
|---|---|---|---|
| **Bucket Type** | | **General Purpose – Pin-On – Abrasion** | |
| **Edge Type** | | **Bolt-On Cutting Edges** | **Teeth and Segments** |
| Capacity – Rated | $m^3$ | 5.70 | 5.70 |
| | $yd^3$ | 7.50 | 7.50 |
| Capacity – Rated at 110% Fill Factor | $m^3$ | 6.30 | 6.30 |
| | $yd^3$ | 8.25 | 8.25 |
| Width | mm | 3481 | 3546 |
| | ft/in | 11'5" | 11'7" |
| **16**† Dump Clearance at Maximum Lift and 45° Discharge | mm | 3201 | 3046 |
| | ft/in | 10'6" | 9'11" |
| **17**† Reach at Maximum Lift and 45° Discharge | mm | 1552 | 1693 |
| | ft/in | 5'1" | 5'6" |
| Reach at Level Lift Arm and Bucket Level | mm | 3069 | 3277 |
| | ft/in | 10'0" | 10'9" |
| **A**† Digging Depth | mm | 114 | 119 |
| | in | 4.4" | 4.6" |
| **12**† Overall Length | mm | 9723 | 9951 |
| | ft/in | 31'11" | 32'8" |
| **B**† Overall Height with Bucket at Maximum Lift | mm | 6432 | 6432 |
| | ft/in | 21'2" | 21'2" |
| Loader Clearance Circle Radius with Bucket at Carry Position | mm | 7654 | 7751 |
| | ft/in | 25'2" | 25'6" |
| Static Tipping Load, Straight (With tire deflection) | kg | 21 363 | 21 252 |
| | lb | 47,097 | 46,854 |
| Static Tipping Load, Straight (No tire deflection) | kg | 22 688 | 22 577 |
| | lb | 50,020 | 49,774 |
| Static Tipping Load, Articulated (With tire deflection) | kg | 18 376 | 18 266 |
| | lb | 40,514 | 40,271 |
| Static Tipping Load, Articulated (No tire deflection) | kg | 19 553 | 19 442 |
| | lb | 43,108 | 42,863 |
| Breakout Force (§) | kN | 198 | 202 |
| | lbf | 44,706 | 45,478 |
| Operating Weight* | kg | 30 100 | 30 177 |
| | lb | 66,359 | 66,529 |

* Static tipping loads and operating weights shown are based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

**Rock bucket specifications are given on Maxam 29.5R25 MS503 L5 Radial tires.

† Illustration shown with Dimension charts.

(§) Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

(With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

# 980 GC Wheel Loader Specifications

## Operating Specifications – Buckets

| Linkage | | Standard Linkage | | | |
|---|---|---|---|---|---|
| Bucket Type | | Flat Floor – Pin-On | | Flat Floor – Pin-On – Light Material (Coal) | Flat Floor – Pin-On – Abrasion (FMT) |
| Edge Type | | Bolt-On Cutting Edges | Teeth and Segments | Bolt-On Cutting Edges | Tips |
| Capacity – Rated | $m^3$ | 5.70 | 5.70 | 8.40 | 5.60 |
| | $yd^3$ | 7.50 | 7.50 | 11.00 | 7.25 |
| Capacity – Rated at 110% Fill Factor | $m^3$ | 6.30 | 6.30 | 9.20 | 6.20 |
| | $yd^3$ | 8.25 | 8.25 | 12.00 | 8.00 |
| Width | mm | 3481 | 3546 | 3638 | 3600 |
| | ft/in | 11'5" | 11'7" | 11'11" | 11'9" |
| **16**† Dump Clearance at Maximum Lift and 45° Discharge | mm | 3096 | 2930 | 2915 | 2943 |
| | ft/in | 10'1" | 9'7" | 9'6" | 9'7" |
| **17**† Reach at Maximum Lift and 45° Discharge | mm | 1459 | 1588 | 1647 | 1648 |
| | ft/in | 4'9" | 5'2" | 5'4" | 5'4" |
| Reach at Level Lift Arm and Bucket Level | mm | 3093 | 3302 | 3354 | 3335 |
| | ft/in | 10'1" | 10'10" | 11'0" | 10'11" |
| **A**† Digging Depth | mm | 114 | 119 | 109 | 79 |
| | in | 4.4" | 4.6" | 4.2" | 3.1" |
| **12**† Overall Length | mm | 9747 | 9976 | 10 004 | 9970 |
| | ft/in | 32'0" | 32'9" | 32'10" | 32'9" |
| **B**† Overall Height with Bucket at Maximum Lift | mm | 6473 | 6473 | 6761 | 6473 |
| | ft/in | 21'3" | 21'3" | 22'3" | 21'3" |
| Loader Clearance Circle Radius with Bucket at Carry Position | mm | 7661 | 7758 | 7804 | 7773 |
| | ft/in | 25'2" | 25'6" | 25'8" | 25'7" |
| Static Tipping Load, Straight (With tire deflection) | kg | 21 197 | 21 013 | 21 071 | 20 491 |
| | lb | 46,732 | 46,327 | 46,455 | 45,176 |
| Static Tipping Load, Straight (No tire deflection) | kg | 22 492 | 22 306 | 22 464 | 21 787 |
| | lb | 49,586 | 49,176 | 49,524 | 48,033 |
| Static Tipping Load, Articulated (With tire deflection) | kg | 18 261 | 18 077 | 18 100 | 17 535 |
| | lb | 40,258 | 39,852 | 39,905 | 38,658 |
| Static Tipping Load, Articulated (No tire deflection) | kg | 19 410 | 19 224 | 19 344 | 18 684 |
| | lb | 42,793 | 42,383 | 42,646 | 41,191 |
| Breakout Force (§) | kN | 196 | 199 | 166 | 208 |
| | lbf | 44,218 | 44,817 | 37,511 | 46,770 |
| Operating Weight* | kg | 29 962 | 30 095 | 30 222 | 30 769 |
| | lb | 66,055 | 66,348 | 66,628 | 67,833 |

* Static tipping loads and operating weights shown are based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

**Rock bucket specifications are given on Maxam 29.5R25 MS503 L5 Radial tires.

† Illustration shown with Dimension charts.

(§) Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

(With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

## Operating Specifications – Buckets

| Linkage | | Standard Linkage |
|---|---|---|
| **Bucket Type** | | **Rock, Spade** – Pin-On** |
| **Edge Type** | | **Teeth and Segments** |
| Capacity – Rated | $m^3$ | 4.30 |
| | $yd^3$ | 5.50 |
| Capacity – Rated at 110% Fill Factor | $m^3$ | 4.70 |
| | $yd^3$ | 6.25 |
| Width | mm | 3525 |
| | ft/in | 11'6" |
| **16**† Dump Clearance at Maximum Lift and 45° Discharge | mm | 3111 |
| | ft/in | 10'2" |
| **17**† Reach at Maximum Lift and 45° Discharge | mm | 1767 |
| | ft/in | 5'9" |
| Reach at Level Lift Arm and Bucket Level | mm | 3278 |
| | ft/in | 10'9" |
| **A**† Digging Depth | mm | 109 |
| | in | 4.2" |
| **12**† Overall Length | mm | 9957 |
| | ft/in | 32'8" |
| **B**† Overall Height with Bucket at Maximum Lift | mm | 6147 |
| | ft/in | 20'2" |
| Loader Clearance Circle Radius with Bucket at Carry Position | mm | 7744 |
| | ft/in | 25'5" |
| Static Tipping Load, Straight (With tire deflection) | kg | 22 003 |
| | lb | 48,509 |
| Static Tipping Load, Straight (No tire deflection) | kg | 23 318 |
| | lb | 51,408 |
| Static Tipping Load, Articulated (With tire deflection) | kg | 18 956 |
| | lb | 41,792 |
| Static Tipping Load, Articulated (No tire deflection) | kg | 20 119 |
| | lb | 44,354 |
| Breakout Force (§) | kN | 201 |
| | lbf | 45,317 |
| Operating Weight* | kg | 29 944 |
| | lb | 66,014 |

* Static tipping loads and operating weights shown are based on a machine configuration with standard ambient cooling, open differential axles, Maxam MS405 L4 tires, standard counterweight, full fluids, operator and 5.5 $m^3$ (7.2 $yd^3$) bucket with BOCE.

**Rock bucket specifications are given on Maxam 29.5R25 MS503 L5 Radial tires.

† Illustration shown with Dimension charts.

(§) Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

(With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Bucket and work tool offerings vary by region. Consult your local Cat dealer for further details.

# 980 GC Wheel Loader Specifications

## Fork Specifications

### Fork Specifications

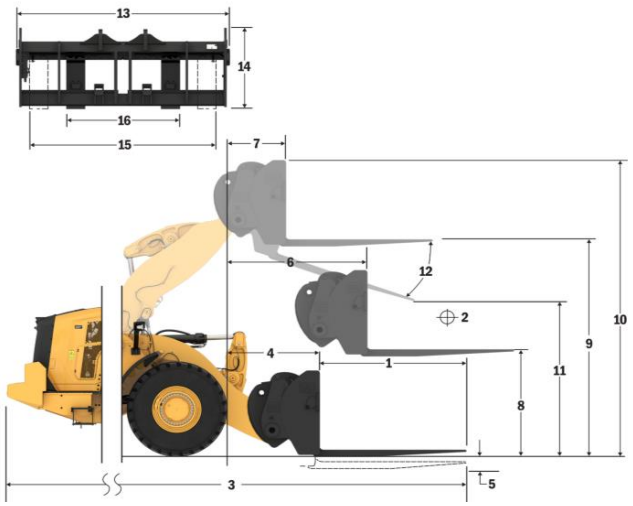
| | | | |
|---|---|---|---|
| 1 | Tine Length | mm<br>in | 1829<br>72.0 |
| 2 | Load Center | mm<br>in | 914<br>36.0 |
| | Static Tipping Load - Straight (Forks Level) | kg<br>lbs | 14399<br>31736 |
| | Static Tipping Load - Articulated (Forks Level) | kg<br>lbs | 12474<br>27493 |
| | Rated Load (SAE J1197 - 50% FTSTL) | kg<br>lbs | 6237<br>13747 |
| | Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL) | kg<br>lbs | 7485<br>16496 |
| | Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL) | kg<br>lbs | 8364<br>18435 |
| 3 | Maximum Overall Length | mm<br>in | 10365<br>408.1 |
| 4 | Reach with Forks at Ground Level | mm<br>in | 1196<br>47.1 |
| 5 | *Ground to Bottom of Tine at Minimum Height and Fork Level | mm<br>in | -120<br>-4.7 |
| 6 | Reach with Arms Horizontal and Forks Level | mm<br>in | 1815<br>71.4 |
| 7 | Reach with Fork at Maximum Height | mm<br>in | 888<br>35.0 |
| 8 | Ground to Top of Tine with Arms Horizontal and Fork Level | mm<br>in | 2075<br>81.7 |
| 9 | Ground to Top of Tine at Maximum Height and Fork Level | mm<br>in | 4343<br>171.0 |
| 10 | Overall Height of Fork at Full Lift (top of carriage to ground) | mm<br>in | 5387<br>212.1 |
| 11 | Clearance at Full Lift and Max Dump | mm<br>in | 2477<br>97.5 |
| 12 | Max Discharge Angle from Horizontal | deg | 55 |
| 13 | Overall Carriage Width | mm<br>in | 2821<br>111.1 |
| 14 | Overall Carriage Height | mm<br>in | 1129<br>44.4 |
| 15 | Outside Tine Width (max spread) | mm<br>in | 2627<br>103.4 |
| 16 | Outside Tine Width (min spread) | mm<br>in | 747<br>29.4 |
| | Tine Width (single tine) | mm<br>in | 250.0<br>9.8 |
| | Tine Thickness | mm<br>in | 85.0<br>3.3 |
| | Tine Capacity | kg<br>lbs | 18700<br>41215 |
| | Operating Weight | kg<br>lbs | 29329<br>64641 |

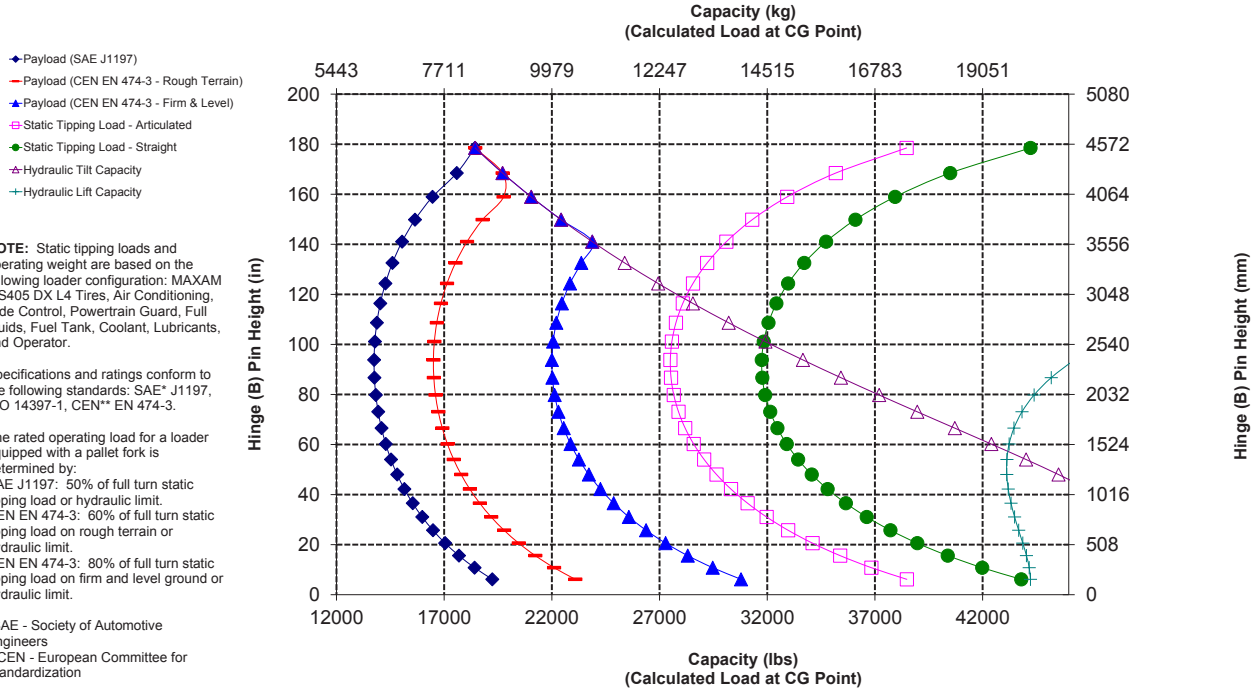
*Negative values indicate below grade

### 980 GC S5 STD

| Construction Fork, FUSION | 108" Carriage | 72" Tine |
|---|---|---|
| | 523-4199 | 523-4200 |

*Build GC 01B
*Parallel Z-Bar Linkage
*Standard Lift Configuration




**NOTE:** Static tipping loads and operating weight are based on the following loader configuration: MAXAM MS405 DX L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE* J1197, ISO 14397-1, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

*SAE - Society of Automotive Engineers
**CEN - European Committee for Standardization

NOTICE: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

## Fork Specifications

### Fork Specifications

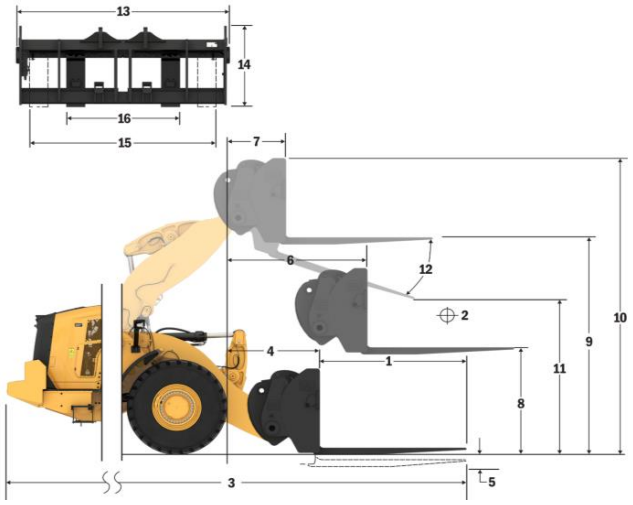
| | | | |
|---|---|---|---|
| **1** | Tine Length | mm<br>in | 2134<br>84.0 |
| **2** | Load Center | mm<br>in | 1067<br>42.0 |
| | Static Tipping Load - Straight (Forks Level) | kg<br>lbs | 13723<br>30245 |
| | Static Tipping Load - Articulated (Forks Level) | kg<br>lbs | 11874<br>26171 |
| | Rated Load (SAE J1197 - 50% FTSTL) | kg<br>lbs | 5937<br>13085 |
| | Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL) | kg<br>lbs | 7125<br>15702 |
| | Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL) | kg<br>lbs | 7426<br>16367 |
| **3** | Maximum Overall Length | mm<br>in | 10673<br>420.2 |
| **4** | Reach with Forks at Ground Level | mm<br>in | 1199<br>47.2 |
| **5** | *Ground to Bottom of Tine at Minimum Height and Fork Level | mm<br>in | -120<br>-4.7 |
| **6** | Reach with Arms Horizontal and Forks Level | mm<br>in | 1815<br>71.4 |
| **7** | Reach with Fork at Maximum Height | mm<br>in | 888<br>35.0 |
| **8** | Ground to Top of Tine with Arms Horizontal and Fork Level | mm<br>in | 2080<br>81.9 |
| **9** | Ground to Top of Tine at Maximum Height and Fork Level | mm<br>in | 4348<br>171.2 |
| **10** | Overall Height of Fork at Full Lift (top of carriage to ground) | mm<br>in | 5387<br>212.1 |
| **11** | Clearance at Full Lift and Max Dump | mm<br>in | 2227<br>87.7 |
| **12** | Max Discharge Angle from Horizontal | deg | 55 |
| **13** | Overall Carriage Width | mm<br>in | 2821<br>111.1 |
| **14** | Overall Carriage Height | mm<br>in | 1129<br>44.4 |
| **15** | Outside Tine Width (max spread) | mm<br>in | 2627<br>103.4 |
| **16** | Outside Tine Width (min spread) | mm<br>in | 747<br>29.4 |
| | Tine Width (single tine) | mm<br>in | 250.0<br>9.8 |
| | Tine Thickness | mm<br>in | 90.0<br>3.5 |
| | Tine Capacity | kg<br>lbs | 17729<br>39075 |
| | Operating Weight | kg<br>lbs | 29431<br>64866 |

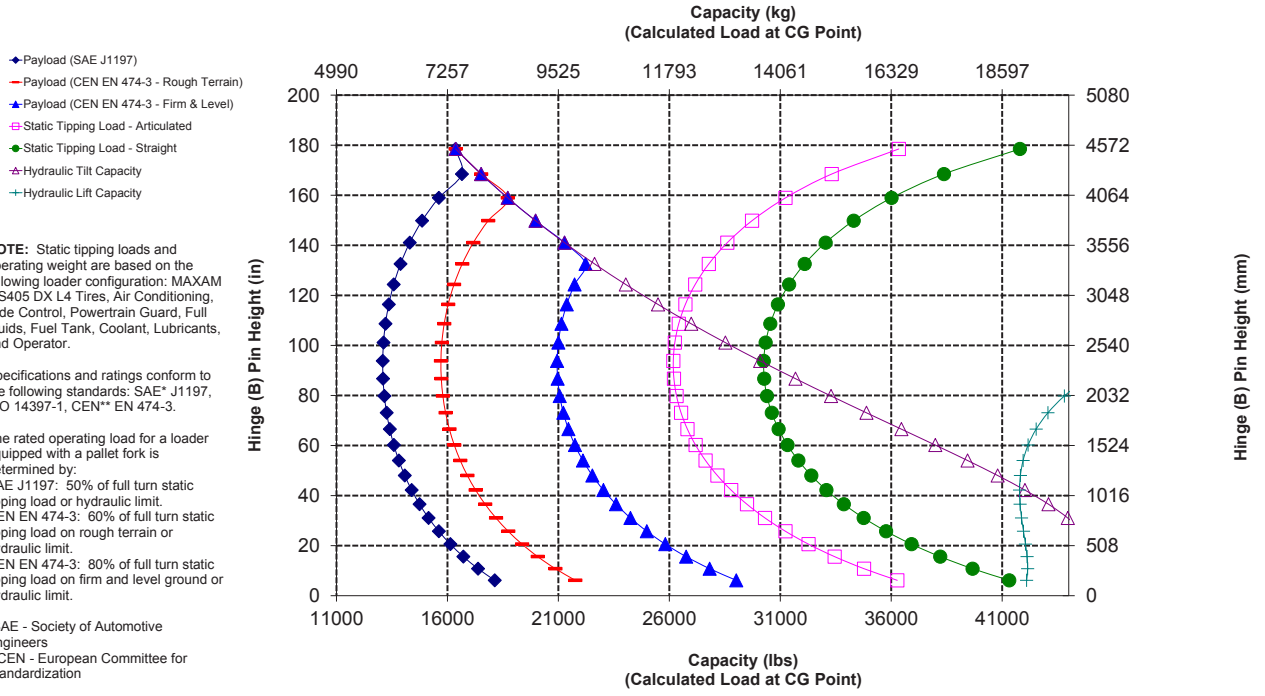
*Negative values indicate below grade

### 980 GC S5 STD

| Construction Fork, FUSION | 108" Carriage | 84" Tine |
|---|---|---|
| | 523-4199 | 523-4201 |

*Build GC 01B
*Parallel Z-Bar Linkage
*Standard Lift Configuration




**NOTE:** Static tipping loads and operating weight are based on the following loader configuration: MAXAM MS405 DX L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE* J1197, ISO 14397-1, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

*SAE - Society of Automotive Engineers
**CEN - European Committee for Standardization

NOTICE: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

# 980 GC Wheel Loader Specifications

## Fork Specifications

### Fork Specifications

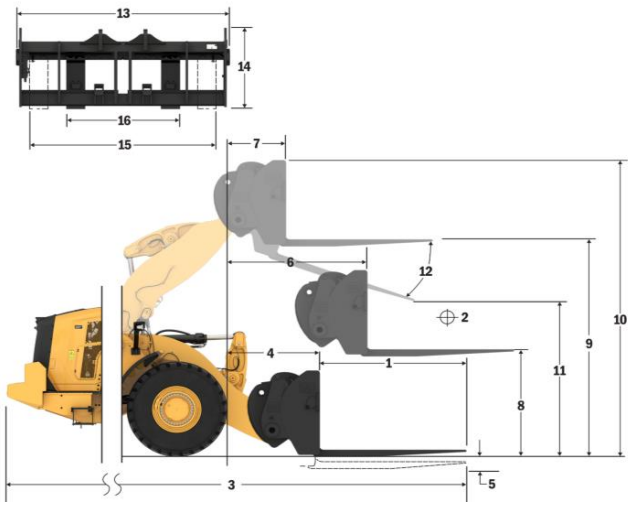
| | | | |
|---|---|---|---|
| 1 | Tine Length | mm<br>in | 2438<br>96.0 |
| 2 | Load Center | mm<br>in | 1219<br>48.0 |
| | Static Tipping Load - Straight (Forks Level) | kg<br>lbs | 13038<br>28736 |
| | Static Tipping Load - Articulated (Forks Level) | kg<br>lbs | 11261<br>24819 |
| | Rated Load (SAE J1197 - 50% FTSTL) | kg<br>lbs | 5631<br>12410 |
| | Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL) | kg<br>lbs | 6597<br>14540 |
| | Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL) | kg<br>lbs | 6597<br>14540 |
| 3 | Maximum Overall Length | mm<br>in | 10982<br>432.4 |
| 4 | Reach with Forks at Ground Level | mm<br>in | 1203<br>47.4 |
| 5 | *Ground to Bottom of Tine at Minimum Height and Fork Level | mm<br>in | -118<br>-4.6 |
| 6 | Reach with Arms Horizontal and Forks Level | mm<br>in | 1820<br>71.6 |
| 7 | Reach with Fork at Maximum Height | mm<br>in | 893<br>35.2 |
| 8 | Ground to Top of Tine with Arms Horizontal and Fork Level | mm<br>in | 2081<br>81.9 |
| 9 | Ground to Top of Tine at Maximum Height and Fork Level | mm<br>in | 4350<br>171.3 |
| 10 | Overall Height of Fork at Full Lift (top of carriage to ground) | mm<br>in | 5387<br>212.1 |
| 11 | Clearance at Full Lift and Max Dump | mm<br>in | 1973<br>77.7 |
| 12 | Max Discharge Angle from Horizontal | deg | 55 |
| 13 | Overall Carriage Width | mm<br>in | 2821<br>111.1 |
| 14 | Overall Carriage Height | mm<br>in | 1127<br>44.4 |
| 15 | Outside Tine Width (max spread) | mm<br>in | 2629<br>103.5 |
| 16 | Outside Tine Width (min spread) | mm<br>in | 747<br>29.4 |
| | Tine Width (single tine) | mm<br>in | 250.0<br>9.8 |
| | Tine Thickness | mm<br>in | 90.0<br>3.5 |
| | Tine Capacity | kg<br>lbs | 15750<br>34713 |
| | Operating Weight | kg<br>lbs | 29582<br>65199 |

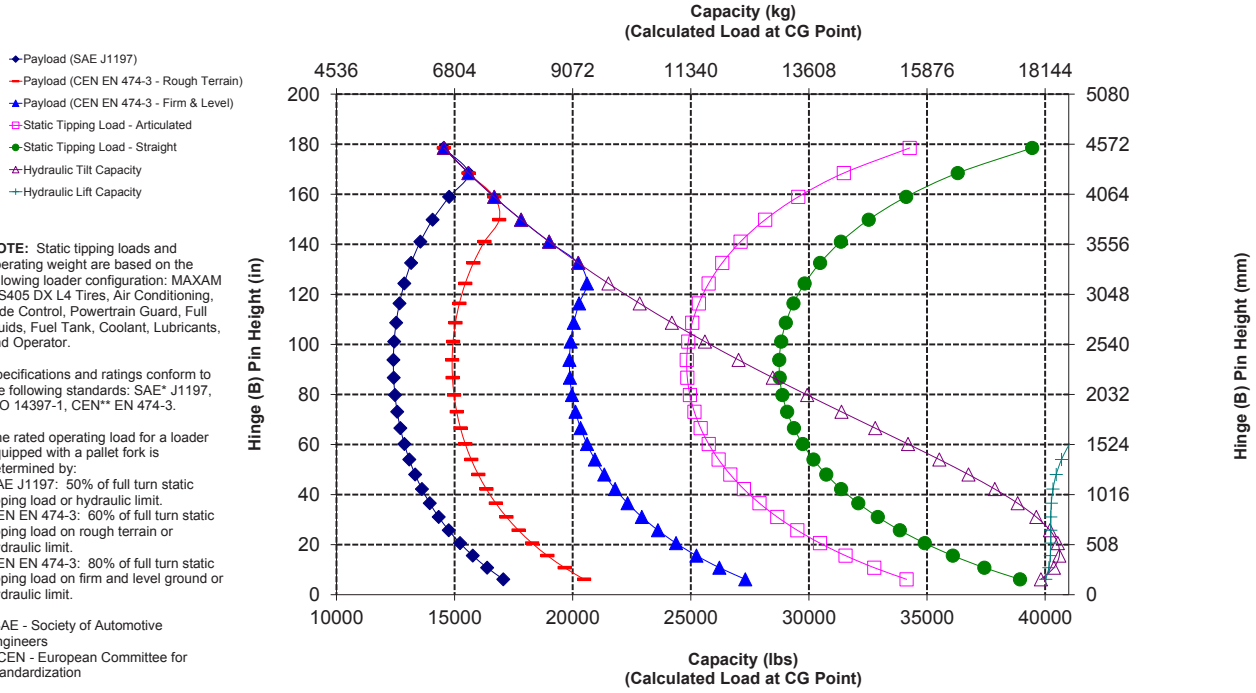
*Negative values indicate below grade

### 980 GC S5 STD

| Construction Fork, FUSION | 108" Carriage | 96" Tine |
|---|---|---|
| | 523-4199 | 523-4202 |

*Build GC 01B
*Parallel Z-Bar Linkage
*Standard Lift Configuration




**NOTE:** Static tipping loads and operating weight are based on the following loader configuration: MAXAM MS405 DX L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE* J1197, ISO 14397-1, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
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*SAE - Society of Automotive Engineers
**CEN - European Committee for Standardization

NOTICE: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat® dealer for details.

| | Standard | Optional |
|---|---|---|
| **OPERATOR ENVIRONMENT** | | |
| Air conditioning (HVAC) with 10 vents and filter unit located outside of cab | ✓ | |
| Bucket/work tool function lockout | ✓ | |
| Cab, pressurized and sound suppressed | ✓ | |
| Camera, rearview | ✓ | |
| CB radio ready | ✓ | |
| Computerized monitoring system | ✓ | |
| Mirrors, rearview external | ✓ | |
| Pilot hydraulic controls, lift and tilt function; two (2) single axis levers or joystick | ✓ | |
| 12V power port (10A) | ✓ | |
| Radio ready | ✓ | |
| Radio: DAB+/AM/FM/BT | | ✓ |
| Rollover protective structure/falling objects protective structure (ROPS/FOPS) | ✓ | |
| Seat, Cat® Comfort (cloth), mechanical suspension | ✓ | |
| Seat, high-back, air suspended | | ✓ |
| Seat, air suspended, heated | | ✓ |
| Steering column, adjustable angle | ✓ | |
| Steering, dual mode | | ✓ |
| Steering, secondary, electrical* | | ✓ |
| Switch, transmission neutralizer (adjustable) lockout | ✓ | |
| Window, sliding (left and right sides) | ✓ | |
| Wipers/washers (front and rear) | ✓ | |
| **POWERTRAIN** | | |
| Axles, Open/Open differentials | ✓ | |
| Axles, limited slip differential(s) | | ✓ |
| Axles, oil cooler | | ✓ |
| Brakes, full hydraulic enclosed wet-disc | ✓ | |
| Cat C13A engine | ✓ | |
| Engine Idle Management System (EIMS) | ✓ | |
| Auto Idle Shutdown (AIS) | ✓ | |
| Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand | ✓ | |
| Fan, reversing automatic and manual control | | ✓ |
| Filter, fuel primary/secondary | ✓ | |
| Fuel priming pump (electric) | ✓ | |
| Fuel/water separator | ✓ | |
| Radiator, unit core (9 fpi) with ATAAC | ✓ | |
| Torque converter | ✓ | |
| Transmission, powershift (4F/4R), automatic (2-4) with kick-down 2-1 manual | ✓ | |
| **LINKAGE** | | |
| Quick coupler control | | ✓ |
| Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment | ✓ | |
| Z-bar, cast tilt lever | ✓ | |

| | Standard | Optional |
|---|---|---|
| **HYDRAULICS** | | |
| Dedicated brake and fan pump | ✓ | |
| Dedicated load sensing steering pump | ✓ | |
| Load sensing implement system pilot operated | ✓ | |
| Ride control | | ✓ |
| S·O·S℠ oil sampling valves | ✓ | |
| 3rd function with additional dedicated single axis lever | | ✓ |
| **ELECTRICAL** | | |
| Alarm, back-up variable | ✓ | |
| Alternator (115-amp, brush type) | ✓ | |
| Batteries, maintenance free (2×1,400 CCA) | ✓ | |
| Ignition key; start/stop | ✓ | |
| Lighting system: 4 halogen work lights, cab mounted | ✓ | |
| Lighting system: 8 halogen work lights, cab mounted | | ✓ |
| Lighting system: 4 or 8 LED work lights, cab mounted | | ✓ |
| Lights: LED taillights | ✓ | |
| Lights: warning beacon | | ✓ |
| Main disconnect switch | ✓ | |
| Roading lights with high/low beam and F and R turn signals | ✓ | |
| Starter, electric (heavy duty) | ✓ | |
| Starting and charging system, 24V | ✓ | |
| **ADDITIONAL EQUIPMENT** | | |
| Autolube system | | ✓ |
| Camera, front view | | ✓ |
| Cat Payload** | | ✓ |
| Cat Payload for Trade*** | | ✓ |
| Cold weather starting | | ✓ |
| Fender rear extensions or roading | | ✓ |
| Hood, engine enclosure tilting | ✓ | |
| L5 traction tires | | ✓ |
| L3 radial or bias ply tires | ✓ | |
| Powertrain guard | | ✓ |
| Precleaner, strata tubes with screen | | ✓ |
| Product Link™ ready | ✓ | |
| Reverse Strobes | | ✓ |
| Steering cylinder guard | | ✓ |
| Tilt cylinder guard | | ✓ |
| Toolbox | | ✓ |
| Variable backup alarm (3dB above ambient noise) | ✓ | |
| Windshield guard | | ✓ |

** Standard where mandated.*
*** Not legal for trade.*
**** Available in Europe. Country certifications vary. Contact your Cat dealer for more information.*

# 980 GC Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

## Engine

- Cat® engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, China Nonroad Stage IV and Japan 2014 emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
  - 20% biodiesel FAME (fatty acid methyl ester)***
  - 100% renewable diesel, HVO (hydrotreated vegetable oil and GTL (gas-to- liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a. See the label or instruction manual for identification of the gas.

*If equipped with R134a (Global Warming Potential = 1430), the system contains 1.476 kg of refrigerant which has a $CO_2$ equivalent 2.145 metric tonnes (2.365 tons).

*If equipped with R1234yf (Global Warning Potential = .501) the system contains 1.476 kg of refrigerant which has a $CO_2$ equivalent of .001 metric tonnes.

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

## Sound

| | |
|---|---|
| Operator Sound Pressure Level (ISO 6396:2008) | 74 dB(A) |
| Exterior Sound Power Level (ISO 6395:2008) | 112 dB(A) |
| Operator Sound Pressure Level (ISO 6396:2008) | 74 dB(A)* |
| Exterior Sound Power Level (ISO 6395:2008) | 109 dB(A)** |

*Including countries that adopt the EU and UK directives.

**EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Engine Idle Management System and Auto Engine Idle Shutdown reduces idle RPM and maximizes fuel efficiency
  - Variable speed fan adjusts to meet machine cooling requirements to help save fuel
  - Load-sensing hydraulics produce flow and pressure on-demand and only in amounts necessary to perform the needed functions

## Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

| Material Type | Weight Percentage |
|---|---|
| Steel | 65.74% |
| Iron | 14.60% |
| Nonferrous Metal | 1.28% |
| Mixed Metal | 0.41% |
| Mixed-Metal and Nonmetal | 0.67% |
| Plastic | 1.10% |
| Rubber | 11.13% |
| Mixed Nonmetallic | 0.00% |
| Fluid | 2.55% |
| Other | 2.10% |
| Uncategorized | 0.43% |
| Total | 100% |

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

| |
|---|
| Recyclability – 96% |


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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.



AEXQ4386-00 (06-2025)
Build number: 01B
(N Am, Europe, Japan, China,
S Korea, Türkiye, Chile, Colombia)